Letters Objecting to the Proposal:

Letter dated. December 15, 1987, to the Honorable Donald P. Hodel from Diane Feinstein, Mayor of San Francisco, CA.

Letter dated, October 27, 1987, to the Honorable Donald P. Hodel from Joseph B. Marcotte, Sr., Chief Executive Officer, Modesto Irrigation District.

DIANNE FEINSTEIN

OFFICE OF THE MAYOR



December 15, 1987

The Honorable Donald Hodel Secretary of the Interior Department of the Interior 18th & C Streets NW MIB Washington, D.C. 20240

Dear Mr. Secretary;

We have reviewed the draft report of the Bureau of Reclamation on Water and Power Replacement Concepts for the Hetchy Hetchy system. We have serious concerns with the report and do not concur with the Bureau's proposal to spend \$3-5 million on further studies based on this report. None of the options proposed can be justified as feasible from an environmental, hydrological, water quality, water supply, cost or governmental standpoint.

The Hetch Hetchy system provides the highest quality drinking water to over 2 million people in the Bay Area. It also provides a clean source of hydroelectric power to Modesto and Turlock Irrigation Districts and for the municipal needs of San Prancisco. The Hetch Hetchy system, authorized by Congress in 1913 after significant debate, is cost effective, operated in an environmentally sound manner and is beneficial to downstream uses on the Tuolumne River. It was also primarily paid for with local funds.

You now propose to spend federal dollars to replace this system with some as-yet-to-be-determined conglomeration of facilities and projects, some of which do not even exist at this time and may never be built given the growing environmental opposition to new water facilities. The costs associated with some of your proposals are in the billions of dollars even by the Bureau's own estimates.

Each of the options proposed in the Bureau's report raises major conflicts with other water users at a time when California is struggling to address statewide water management, water supply and water quality issues. The report virtually ignores that significant water rights problems and likely litigation are inherent in each one of the proposed options. And the report ignores that any of the options would seriously diminish the reliability, quality and efficiency of the Hetch Hetchy system.

The Honorable Donald Hodel Page 2 December 15, 1987

For example, the Bureau's basic proposal to reoperate the facilities on the Tuolumne River is not feasible. At today's level of water exports, without Betch Hetchy reservoir, the remaining facilities configured as the Bureau suggests fail to meet both export and MID/TID water needs. In dry years there would not be enough water available to meet even current demand. Exports from New Don Pedro would require higher and more complex levels of treatment because the watershed does not have the same protections as the Hetchy watershed. New Don Pedro was designed to store irrigation water and is heavily used for recreational purposes. And besides, San Francisco has no legal right to water stored in New Don Pedro.

The passage of Proposition 65 clearly demonstrates that the people of California are increasingly concerned about the quality of water they are drinking. The enactment of new state and federal drinking water standards reflects that concern. The elimination of the Hetch Hetchy reservoir would downgrade the drinking water supply of the 2 million people in 32 Bay Area communities and require more treatment. In the face of questions about the health risks associated with water treatment, it is becoming increasingly apparent that treatment is not and cannot be a substitute for a high quality water source.

The Bureau's report fails to address the implications of your idea in any significant way. It also fails to develop any clear picture of the alternative you propose for the use of the Hetch Hetchy Valley and the environmental and cost issues attendant with that proposal. We do not believe the benefits of any alternative you propose could outweigh the costs of this idea.

We cannot help but conclude that the idea to remove Hetch Hetchy must rank at the bottom of the list of priorities for the federal government, the state and certainly the Bay Area. It seems irresponsible to us to spend the billions of dollars in public funds necessary to implement your "idea", or even the \$3-5 million the Bureau has proposed for the further development of this "idea". In light of the federal budget deficit and the critical human concerns and environmental projects that need federal funding throughout the country, we suggest that there are far better alternatives for this money.

Sincerely,

Dianne Feinstein,

Mayor





October 27, 1987

The Honorable Donald P. Hodel Secretary of the Interior Department of the Interior 18th and C Streets, N.W. Washington, D.C. 20240

Dear Mr. Secretary:

Enclosed herewith for your information is a copy of a policy statement of the Modesto Irrigation District unanimously adopted by formal action of the District's Board of Directors during their meeting of today.

In the discussion which preceded the formal action of the Board, it became clear that the policy statement coincides completely with what the Directors have been hearing from the public they represent, namely - universal opposition to the notion of removing or breaching O'Shaughnessy Dam and returning Hetch Hetchy Valley to a state of nature.

Sincerely,

JOSEPH B. MARCOTTE, JR. Chief Executive Officer

JBM:sr

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Ernest Geddes, General Manager, TID Dianne Feinstein, Mayor, San Francisco Senator Alan Cranston Senator Pets Wilson Congressman Tony Coelho Senator Dan McCorquodale Senator Ken Maddy Senator Ruben Ayala Assemblyman Gary Condit Assemblyman Jim Costa David Kennedy, Director, DWR David Houston, Regional Director, USBR Robert Kallman, Asst. to the Secretary, DOI John Fraser, Executive Director, ACWA Jeffrey L. Nelson, President, NWRA Jerry Jordan, Executive Director, CMUA

RESOLUTION NO. 87-162 POSITION OF MODESTO IRRIGATION DISTRICT RELATIVE TO SECRETARY OF INTERIOR'S PROPOSAL TO REMOVE HETCH HETCHY DAM

BE IT RESOLVED that the Modesto Irrigation District

"MID" opposes the removal of O'Shaughnessy Dam and/or draining of
Hetch Hetchy valley or modifications of the benefits which derive
therefrom. It recognizes that if the dam did not presently exist
and consideration were being given to construction of a dam in
that location, environmental values would likely preclude
construction of a new dam. Given the existence of the present
dam and the established dependency of water and electricity
provided by it, and the costs associated with restoration of the
valley and providing replacement electricity and water, weighed
against the environmental values which may be recovered from such
a restoration, the removal does not appear to "make sense."

RESOLVED FURTHER "MID" does not want to be injured either sconomically or physically. Recognizing that events could occur which may have an impact on the existing system, "MID" holds that it has existing legal and contractual rights and is entitled to enjoy those rights without injury.

RESOLVES FURTHER that "MID" asserts that the City and County of San Francisco and the Turlock Irrigation District must not be injured, either economically or physically. "MID" is contractually bound to both of the above and will likely suffer in the event that either is injured.

RESOLVED FURTHER that the "NID" understands that there is a strong desire on the part of the Secretary of the Interior to evaluate the possibility of removal of Hetch Hetchy Dam, "MID" will make available, as requested, information for that evaluation provided that it is an active participant through the evaluation study and decision-making process.

The foregoing resolution was introduced by Director Cowan, who moved its adoption, seconded by Director Lyons, and adopted unanimously by a vote of all Directors present.

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I, VICKIE EHRLER, Secretary of the Board of Directors of the MODESTO IRRIGATION DISTRICT, do hereby CERTIFY that the foregoing is a full, true and correct copy of a resolution duly adopted at a regular meeting of said Board of Directors held on the 27th day of October, 1987.

Secretary of the Board of Directors of the Modesto Irrigation District

Appendix 2

Western Systems Coordinating Council Summary of Estimated Loads and Resources. April 1987.

California - Southern Nevada Power Area

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SUMMARY OF ESTIMATED LOADS AND CALIFORNIA - SOUTHERN NEVADA PO

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RESOURCES - HYDRO - CONVENTIONAL	10864		11000	11106	11080	11133	10978	10908	10801	10804	10701	10698
HYDRO -	3181		3170	3168	3254	3389	3318	3200	3189	3151	3133	3118
	528		5291	5281	5291	8333	6233	8333	8333	5333	5333	5333
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-	6697		6693	6689	6677	6667	6869	6999	6999	6583	6694	6697
COMBUSTION TURBINE	2843		2828	2821	2668	2648	2655	2664	2651	2728	2828	2842
COMBINED CYCLE	1614		1614	1614	1554	1554	1884	1554	1884	1854	1614	1614
GEOTHERMAL	3401		3491	3491	349	2000	3525	3828	3528	3541	3541	2541
INTERNAL COMBUSTION	376		376	376	376	376	376	376	376	376	376	376
COGENERATION	3538		3539	3538	3539	3539	3539	3539	3539	3539	3539	3539
OTHER	2226		2226	2226	2227	2328	2378	2377	2377	2377	2376	2376
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TOTAL RESOURCES	59766	-	59873	59963	59797	60101	59964	59784	59623	59731	59780	59779
INDPERABLE CAPABILITY	478		476	8 6 5	510	510	916	8.58	80	543	479	476
SCHEDULED MAINTENANCE	7028		7940	8378	3891	1546	432	280	1443	5849	7039	4383
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TOTAL UNAVAILABLE CAPABILITY	7505		8416	8838	4410	2056	948	798	1994	6392	7518	4859
NET RESOURCES	52261	52757	51457	\$1065	55387	58045	59016	58986	57629	53338	52262	54920
FIRM/JOINT PART, IMPORTS - NWPP	-1247		-1322	-1322	-1322	-1619	-1619	-1652	-1652	-1355	-1247	-1247
A2-14M	-4427		-4440	-4452	-4452	-4458	-4458	-4458	-4457	-4421	-4422	-4428
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TOTAL IMPORT	-5674		-5762	-5774	-5774	-6077	-6077	-6110	-6109	-5776	-5669	-5675
FIRM/JOINT PART. EXPORTS - NWPP	728		431	431	431	461	461	461	461	461	788	758
AZ-NM	163		166	167	168	169	169	169	170	167	166	165
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TOTAL EXPORT	893		25.7	598	599	630	630	630	631	628	924	923
	-4781		-5165	-5176	-5175	-3447	-5447	-5480	-5478	-5148	-4745	-4752
JOINT PARTICIPATION TRANSFERS	-3983		-3983	-3983	-3963	-3823	-3953	-3853	-3953	-3953	-3953	-3953
NET FIRM TRANSFERS*	-798		-1182	-1193	-1192	-1494	-1494	-1527	-1525	-1195	-792	-799
PLANNED PURCHASES/SALES	-2438		-1703	-1571	-2009	-4108	-5103	-4625	-4121	-3695	-2748	-1941
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*NET EXPORTS/IMPORTS LESS JOINT PARTICIPATION TRANSFERS (MINUS SIGN INDICATES PURCHASE).
JOINT PARTICIPATION GENERATION IS INCLUDED BY TYPE UNDER "RESOURCES" IN EACH PARTICIPANT'S AREA.

1/ A 20 percent margin over firm load is considered adequate (see Note 19 on Appendix 3)

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JOINT PARTICIPATION GENERATION IS INCLUDED BY TYPE UNDER "RESOURCES" IN EACH PARTICIPANT'S AREA.

1/ A 20 percent margin over firm load is considered adequate (see Note 19 on Appendix 3)

Pacific Gas & Electric Company Common Forecasting Methodology 7 Volume III Electric Supply Forms 1987 - 1999 September 1987

Summary of Loads and Resources Dependable Capacity in Megawatts

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Executive Summary

TRANSPORTATION

Currently California's transportation sector is the most susceptible to steep fuel price increases and disruptions in the international oil market. Despite federal, state and private efforts, transportation is still almost totally dependent on oil. There are alternative fuels which show great promise for reducing California's dependence on oil. However, declining oil prices, market barriers, inconsistent federal policies, and insufficient research and development efforts have inhibited the significant use of alternative fuels. The Energy Commission continues to believe that methanol has the greatest potential to displace a substantial portion of oil used in transportation. To increase the methanol fleet and to reduce air pollution, government agencies in nonattainment air basins should adopt programs to substitute methanol for gasoline. In addition, greater development of flexible fuel vehicles can allow consumers to respond to fuel prices and increase the use of alternative fuels.

In the early 1980s, some reduction in the growth of demand for oil had been achieved through the market's reaction to steep fuel price increases, the federal fuel economy standards, and congestion reduction measures such as ramp metering, traffic signal timing, and carpooling. Present use, however, is rising due in large part to lower prices, and unfortunately, the Federal Government has rolled back its Corporate Average Fuel Economy (CAFE) standards. To improve the market for alternative fuels, the federal government should provide CAFE credits as an incentive for auto manufacturers to produce vehicles capable of using methanol fuels.

Excessive dependence on petroleum is not the only crisis facing California's transportation system. The state has grown laster than the present highway system can accommodate and we can look forward to increasing congestion. Deteriorating air quality is the other major problem associated with transportation energy use. These problems are related, since congestion increases fuel use while also degrading air quality. Currently, Caltrans, the Air Resources Board (ARB), and the Energy Commission produce plans and programs which address various aspects of the transportation problem. No single state agency prepares a comprehensive transportation plan that accounts for overlapping state interests. Caltrans, the ARB, and the Energy Commission believe a formal relationship similar to the Methanol Task Force should be established to explore and coordinate solutions to the problem.

The use of telecommunications can help achieve multiple goals of congestion relief, air quality improvements, and energy conservation. The California Department of General Services (DGS) has begun a pilot program evaluating telecommuting as a work option. The Energy Commission plans to support the program through actual participation of its employees and providing analysis of the effects of the program.

ELECTRICITY

California's electricity system is becoming decentralized and increasingly competitive. The utility companies are required to accept power from nonutility generators which creates the need for greater flexibility in the operation and coordination of the supply system. In most areas of California, there are sufficient electricity resources to meet our needs for the next 12 years, unless there is a dramatic increase in demand. These circumstances require the state to be more selective by adding new resources to the system based on an economic preference as well as physical needs and environmental considerations.

Industrial customers have begun building electric generation facilities. These 'self generators' represent a potentially large source of electricity supply in California; however, they also represent a corresponding loss of utility sales which could have an uncertain financial effect on utilities and ratepayers alike. Utilities and the California Public Utilities Commission (CPUC) are concerned that self generation will result in increased rates for a smaller number of consumers paying the fixed costs of producing and delivering electricity. The Energy Commission views self generation as another technology that can, like conservation, reduce ratepayer costs both directly (by lower bills to self generators) and indirectly (by forcing the electricity market to be more competitive). To capture these benefits, the Energy Commission has urged the CPUC to consider relieving the utilities of the obligations to serve self generators; ensure that standby charges compensate utilities for the cost of maintaining standby service; and allow the utilities to negotiate with customers to offer competitive rates consistent with the utility's costs.

In the Energy Commission's view, the CPUC should continue to adopt policies which will result in a more competitive energy market in California. The price paid for energy should reflect the cost of providing that energy. The state should reduce the barriers to free access to energy transportation facilities, consistent with protection of ratepayer interest. At the same time, consumers must continue to be provided with energy efficiency tools which allow them some control over their energy bills.

The Energy Commission continues to believe that a diverse resource base for electricity generation is the best insurance against instability. Previous policy focused on the risks of overdependence on oil- and gas-fired generation. The reality is that all generation resources are susceptible to unique events which would limit their availability. Consequently, state policy should encourage "he development of an electricity generation system which does not place all of California's electricity "eggs" in a single generation resource "basket."

State energy policy should continue to promote cost-effective government and utility energy efficiency programs. Energy efficiency and load management programs provide long-term benefits by improving responsiveness to energy supply disruptions while reducing the environmental and public health impacts from energy generation facilities. Energy efficiency programs enable consumers to respond to market signals and thus have greater control over their utility bills. In addition, lower energy costs mean more competitive businesses and stimulate the state's economy. The Energy Commission has adopted a comprehensive set of building and appliance standards whose benefit will not be realized unless they are effectively implemented. Over the next two years, the Energy Commission will emphasize full market penetration and effective implementation of the existing standards, prior to considering any new standards.

The development of new technologies is important in achieving adequate long-term energy supplies at a reasonable cost. Just as past research and development (R&D) investments are paying off as today's diverse electricity system, tomorrow's energy improvements will be equally dependent upon the success of current efforts. Energy technology R&D should continue to be focused on technologies which can contribute to greater efficiency, cost stability, and environmental improvement of the existing energy system. In addition to improving our energy outlook, expansion and vitalization of California's energy technology industry can stimulate the state's economy through exports. California's government agencies should work with industry to expand the state's export market capabilities.

State of California Department of Water Resources Bulletin 160-87 January 1988

Meeting Water Needs to 2010

Use and Status of Present Supplies

Meeting Water Needs to 2010

in million acre-feet

Source of Supply	Projected 2010 Net Use	Change from 1985	Remarks
Local surface water	9.3		Some relatively small additions are expected.
Ground water safe yield	8.0	0.1	Some additional development is projected in Northern California basins.
Federal Central Valley Project	7.8	0.7	San Felipe Division; New Melones supply contracts; Mid-Valley Canal service area.
Other federal sources	1.2		None exaumed by 2010.
State Water Project	3.2	0.8	Increase in dependable supplies is 0.9 million acre-feet. See figure showing potential addi- tions to SWP.
Colorado River	4.2	-0.6	Assumes no surplus flow available. Assumes 200,000 scre-feet of 450,000 scre-feet of water salvage is reserved for future use in the imperial Valley.
Local agency imports (excluding the Colorado River)	1.0	<i>-</i>	Some use of American River water by East Bay Municipal Utility District is projected.
Recialmed waste water	0.6	0.2	Mostly additional projects in South Coast and San Francisco Bay regions.
Ground water overdraft	2.0	-0.2	Decrease due to Mid-Valley Canal supplies is nearly offset by increases in other locations
Source yet to be determined	0.4	0.4	Needs are primarily in South Coast and Tulare Lake regions.
TOTALS	35.6	1.4	

Major Water Management Actions whose effects appear above in the "Change from 1985" column are listed here and described in subsequent sections of the report.

WATER SUPPLY ADDITIONS:

Delta Pumping Plant Completion Los Banos Grandes Reservoir

Kern Water Bank South Delta Facilities North Fork Stanislaus River Project

North Delta Facilities

DELIVERY & USE OF DEVELOPED SUPPLIES:

Coastal Aqueduct-SWP East Branch Enlargement-SWP CVP Wheeling-Purchase-SWP

San Felipe Division-CVP New Meiones Reservoir-CVP Mid-Valley Canal-CVP

Imperial Irrigation District

Balvage Water

East Bay MUD American River Contract-CVP

USE OF RECLAIMED WASTE WATER:

Various projects, primarily in the South Coast and San Joaquin Valley regions.



Use and Status of Present Supplies

Source of Supply	1985	Net Use	Status
	in million sore-feet	In percent	
Local surface water	9.3	27	Mostly fully used. About 0.1 million scre-feet of un used yield is available in Sacramento Valley.
Ground water safe yield	5.0	17	Modest additional supplies in Northern California are svaliable.
Federal Central Valley Project	7.1	21	CVP has an additional uncontracted-for project sup- ply of about 1 million acre-feet, depending on place of use and other factors. (See Chapter 3.)
Other federal sources	1.2	4	Existing supplies are nearly fully committed.
State Water Project	2.4	7	Dependable supplies of existing facilities of 2.3 million acre-feet are fully committed in dry years. Amount shown includes 0.1 million acre-feet surplus water de- liveries.
Colorado River	.68	14	Recent use has averaged 4.8 million scre-feet. Firm supply will be reduced to 4.4 million acre-feet after start of Central Arizona Project. California gets first surpluses in lower Colorado River.
Local agency imports (excluding the Colorado River)	1.0	3	San Luis Obispo County, San Francisco, and East Bay Municipal Water District have unused supplies, but conveyance facilities are needed.
Reclaimed waste water	0.3	1	Some potential exists for increased use of existing waste water supplies, primarily in Southern California and the San Francisco Bay area.
Ground water overdraft	2.2		Future amount will be affected by availability of alter- native surface supplies and economics of pump lifts.
TOTAL	34.2	100	es una porte grass. Por anti-ratione futbrareas a reconstructural. For March 19.

State of California Department of Water Resources Bulletin 160-87 January 1988

California's Population 1980, 1985, and 2010

California's Population--1980, 1985, and 2010 in millions

				Inci	ease	Inc	rease
Region	1980	1985	2010	60-and	-1985	000000	-2010
San Francisco Bay and Central Coast	5.8	6.3	7.9	0.5	8%	1.6	26%
South Coast	12.9	14.1	19.1	1,2	10%	5.0	35%
Sacramento River	1.7	1.9	3.0	0.2	13%	1.1	57%
San Joaquin River and Tulare Lake	2.2	2.5	4.2	0.3	15%	1.7	67%
Colorado River	0,3	0.4	0.7	0.1	19%	0,3	91%
Remaining Regions	8.0	0.9	1.4	0.1	13%	0.5	57%
California	23.7	26.1	- 36.3	2.4	10%	10.2	39%

Source: California Department of Finance.

Memorandum to the Public Utilities Commission, City and County of San Francisco, California, dated, December 17, 1987, analyzing proposed new power contracts involving Hetch Hetchy Power. wand County of San Francisco

Public Utilities Commission





December 17, 1987

TO: The Public Utilities Commission

FM: Anson B. Moran

RE: New Power Contracts

We have just concluded our negotiations with PG&E and the Modesto and Turlock Irrigation Districts (the Districts). When PUC action is complete, the agreements will be filed with the Clerk of the Board of Supervisors. The Board's action will be requested as follows:

* The Districts' contract requires Board action,

 The PG&E contract is included as an appendix to the Districts' contract and will be included in the transmittal to the Board,

The contracts will require the Board's timely, but not

emergency, consideration,

In order to operate beyond January 1, 1988 without final contracts the PUC is being asked to adopt an amendment to the interim contract extending its term through Jan 31, 1988 (the limit of the PUC's authority). The Board will be asked to extend the interim contract from February 1 through March 31, 1988 at the time they approve the Districts' contract to allow for regulatory filing and approval.

We believe that this schedule will provide opportunity for full review and consideration of the proposed contracts.

CONTRACT SUMMARY

The table which follows compares the old (pre-'85) and new contracts. Significant features are noted below:

* On average the net revenues to the City from Hetch

Hetchy will nearly double,

 In dry years Hetchy will be at less financial risk than under the old contracts and will be able to cover their costs under even the most adverse years,

Charges for transmission of Hetchy power to the City

are unchanged,

 Access to assigned customers for sale of Hetchy's excess power is assured at market-based rates.

Rate structures are assured for the life of the

agreements,

* The City is protected from retroactive application of the CPUC's expected Diablo rate ruling and PG&E's filing for additional Diablo rates with the Federal Energy Regulatory Commission (FERC).

FINANCIAL COMPARISON*

	01d	(\$ Millions)	New
District Power Sales City Power Sales Assigned Customers Water and Other Revenues	9.5 32.0 9.0 10.9		37.1 34.0 5.4 10.9
Total Revenues	61.4		87.4
Transmission (Wheeling) Supplemental (Firming) Ser Capital & Operating Budget			7,3 12.8 38.6
Total Expenditures	46.8		58.7
Hetch Hetchy Net	14.6		28.7

^{*} Comparison is based on 67 years of water history, and is expressed in constant, 1988 Dollars

BACKGROUND

Our prior contracts with PG&E and the Districts expired on June 30, 1985. In negotiating new contracts our first objective was to maximize revenues to the City by selling Hetchy's power at market based, firm power rates. In order to sell our power as firm, we needed to establish a new relationship with PG&E to support us at times that we could not generate our firm commitments. Thus, the new contracts that we needed to negotiate with both PG&E and the Districts were to be of substantially different form and content than the old contracts.

In order to gain the time required time to negotiate these new contracts, the City (ie the PUC, Board and Mayor) entered into an interim contract with PG&E and the Districts. This contract continues through December 31, 1987 and establishes the commitment to enter into long term contracts to take effect on January 1, 1988 which must include the following principles:

* City to sell 260-290 mw of firm power to the Districts

For a period of 30 years starting July 1, 1985

* At a fixed price (36.25 mills) to be adjusted for inflation.

The above principles included in the interim contract left a lot of language, administrative and implementation detail to be worked out during the 2 1/2 year interim period. In addition to working out these details, our objectives in this phase of negotiations were:

* To secure the net revenue benefits anticipated at the signing of the interim agreements,

 To obtain firming services from PG&E through cost based rates,

To minimize the cost of firming services in a dry year,

To continue cost based transmission services,

* To continue access to assigned customers for the sale of Hetchy's excess power,

To retain maximum operating flexibility for Hetchy.

The interim agreement fixed the most substantive terms of the Districts' agreement. Accordingly, most "new" work was done in negotiating the PG&E contracts. In neither agreement, however, was there any such thing as a minor issue and the negotiations of the past 2 1/2 years have been intense.

OUTCOME

The agreements that the PUC will be sending to the Board achieve and exceed our objectives. The table presented earlier in this memo shows that average net Hetchy revenues will grow from \$14.6 million to \$28.7 million after operating and capital budgets are funded. Over the remaining 27 1/2 years of these agreements, this will be worth nearly \$390,000,000.00 in 1988 dollars.

In addition to increased net revenues, the agreements submitted by the PUC obtain for the City the following benefits:

- The dry year financial risk will be slightly less than it was under the old agreements when we had no obligation to purchase supplemental power for the Districts.
- * We have reduced dry year costs, preserved operating flexibility and eliminated the possibility of costly operating errors by obtaining a supplemental power agreement from PG&E that contains no peak period and no ratchet for capacity purchases.

 We have obtained capacity credits which establish minimums below which there will be no charge for capacity purchases.

* We are purchasing an option on up to 200 mw of transmission capacity into the City, preserving our ability to double municipal consumption of Hetchy power.

 PG&E and District rates will be adjusted for inflation. The structure of rates is fixed to include the above terms for the life of the contracts.

* We have assured access to assigned customers so that we will always have customers for excess Hetchy generations.

 The City is not precluded from buying or selling power from or to other utilities.

 The City's obligation to provide firm power to the Districts is limited to 90 days after a system failure or other uncontrollable force (not including a dry year).

* The amount of firm power available to the Districts will be adjusted for changes in San Francisco Municipal Load, water delivery requirements, and acts of the Court or Congress.

OTHER NOTES

- Neither Contract precludes municipalization.
- Our obligation to sell firm power to the Districts is for 30 years and started 2 1/2 years ago with approval of the interim contract. Thus, if we were to municipalize, we would have to purchase power to sell through the municipalized system. Nothing in these agreements prohibits such purchases.
- PUC staff has obtained independent legal counsel to the effect that our obligation to the District is a firm contractual obligation.
- The PUC's approval of the PG&E contract does not compromise Board action in that there are "unwind" provisions should the Board not approve the Districts' contract.
- We need the PG&E contract even without the Districts' contract in order to get Hetchy power to City facilities and to provide access to assigned customers.
- * We have confirmed that the rate that we will receive from the Districts is still competitive. The most recent comparable bids were in response to SMUD's RFP which were in the range of 38-42 mills. The Districts will be paying us slightly over 40 mills.

CONCLUSION

We believe that the proposed contracts with PG&E and the Districts are very much in the City's interest and are the bast contracts obtainable. The contract terms are aggressive and are tailored to meet the City's unique needs. Specifically, the following points make these contracts unbeatable.

- We are obligated to sell power to the Districts, the rate that we will be getting is competitive and will double our net revenues.
- The Districts' contract protects the City from risk of:

System failure longer than 90 days

- Changes in San Francisco municipal loads
- Changes in San Francisco's water delivery requirements
- Adverse actions by the Court or Congress

- The PG&E contract protects the City from risk of:
 - Excessive dry year costs
 - Loss of assigned customers
 - Retroactive application of Diablo rates
 - FERC filing for Diablo rates in excess of what
 - the CPUC allows
 - Operator scheduling errors forcing on-peak purchases of power
 - Changes in PG&E's rate making methodology

Appendix 8

Excerpts from the General Management Plan for the Yosemite National Park

- A. Influences on Planning
- B. Boundary Alteration, Land Acquisition, and Wilderness Additions
- C. Developed Area Plans

INFLUENCES ON PLANNING

PURPOSE OF THE PARK

There are two purposes for Yosemite National Park. The first is preservation of the resources that contribute to Yosemite's uniqueness and attractiveness — its exquisite scenic beauty; outstanding wilderness values; a nearly full diversity of Sierra Nevada environments, including the very special sequoia groves; the awesome domes, valleys, polished granites, and other evidences of the geologic processes that formed the Sierra Nevada; historic resources, especially those relating to the beginnings of a national conservation ethic; and evidences of the Indians that lived on the land. The second purpose is to make the varied resources of Yosemite available to people for their individual enjoyment, education, and recreation, now and in the future.

MANAGEMENT OBJECTIVES

The National Park Service's mandate to administer Yosemite comes from Congress. Inherent in this mandate are obligations regarding resource management, visitor use, and park operations. These obligations are further defined and established as the management objectives for the general management plan. This plan and all other park management activities are directed toward achieving these basic goals.

Resource Management

Restore and maintain natural terrestrial, aquatic, and atmospheric ecosystems so they may operate essentially unimpaired

Conduct continuing research to gather and analyze information necessary for managing natural resources

Restore altered ecosystems as nearly as possible to conditions they would be in today had natural ecological processes not been disturbed

Protect threatened and endangered plant and animal species and reintroduce, where practical, those species eliminated from the natural ecosystems

Identify and perpetuate natural processes in park ecosystems

Permit only those types and levels of use or development that do not significantly impair park natural resources, and direct development and use to environments least vulnerable to deterioration

Limit unnatural sources of air, noise, visual, and water pollution to the greatest degree possible

Preserve, protect, and restore scenic resources

Identify the major scenic resources and the places from which they are viewed

Provide for the preservation or protection of existing scenic resources and viewing stations

Provide for historic views through vista clearing

Permit only those levels and types of use that are compatible with the preservation or protection of the scenic resources and with the quality of the viewing experience

Preserve, restore, or protect significant cultural resources (historic and prehistoric)

Identify, evaluate, and determine the significance of cultural resources, encompassing buildings, structures, sites, and objects

Provide for the preservation, restoration, or protection of these significant cultural resources

Permit only those uses that are compatible with the preservation of significant cultural resources

Visitor Use

Assist all people in understanding, enjoying, and contributing to the preservation of the natural, cultural, and scenic resources

Orient visitors, provide personal assistance, and inform them about opportunities the park provides

Provide interpretive services that relate the natural and cultural significance of Yosemite to visitors with a broad diversity of interests

Provide only for those types and levels of programs and activities that enhance visitor understanding and enjoyment of park resources

Permit only those levels and types of accommodations and services necessary for visitor use and enjoyment of Yosemite

Provide the opportunity for a quality wilderness experience

Provide transportation services that facilitate visitor circulation and enhance preservation and enjoyment of park resources

Park Operations

Maintain a safe, functional, and orderly environment that provides compatible opportunities for resource preservation and enjoyment by visitors and employees

Classify park lands, specifying their management and use, to ensure the achievement of all objectives

Provide facilities for administration, maintenance, and management at appropriate locations

Locate facilities to minimize exposure to natural hazards such as rockslides, flooding, avalanche, and hazard trees

Encourage an appropriate use of structures with historic, architectural, or engineering significance, consistent with the preservation of their historic fabric

Provide facilities and utility systems that conserve energy and comply with all applicable standards and codes

Protect the rights, safety, and security of all visitors and employees

Remove barriers that interfere with use of developed facilities by the handicapped and other special populations, and provide easy access for all visitors whenever feasible

Adjust park boundaries as required to preserve and provide for enjoyment of nationally significant resources, to complete ecological units insofar as possible, and/or to provide for more effective management

Provide, at appropriate locations, services and amenities conducive to a community environment for employees

Support an integrated system of compatible regional land uses providing opportunities for recreation, community development, preservation, and economic utilization of resources

Participate with government agencies and private interests in planning for compatible management and use of scenic, natural, cultural, and recreation resources

Promote visitor services and accommodations at sites more appropriate to the preservation of park values and the public interest through coordinated regional planning and encouragement of private enterprise outside the park

LAND MANAGEMENT ZONING

The park is divided into several zones based on management objectives, significance of the resources, and legislative constraints. The zoning plan describes the land use policies that management will work to achieve over the lifespan of this plan. These zones sometimes overlap, as in the case where outstanding natural features and highly significant archeological resources coincide in a designated area. As a result, management decisions must be based on equal recognition of both resources.

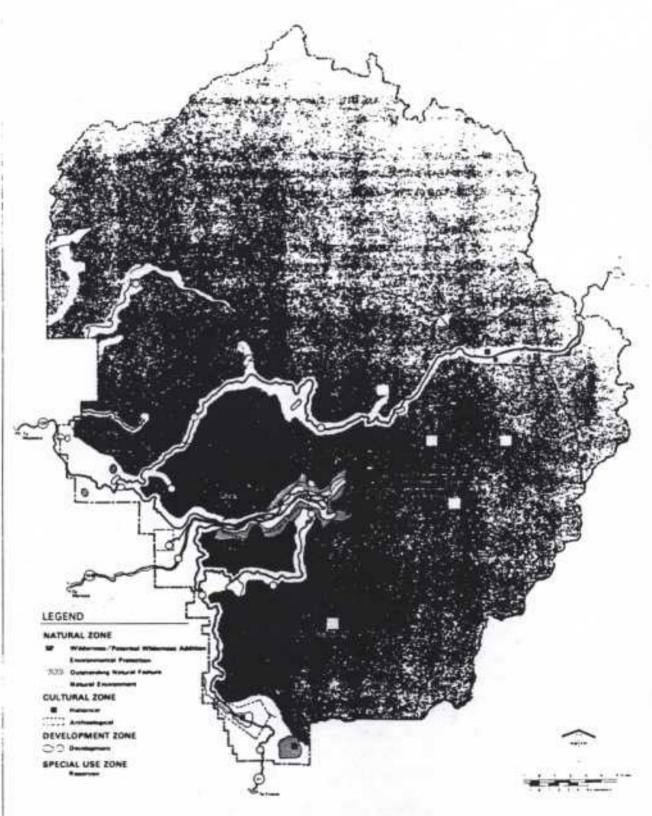
Natural Zone

Wilderness Subzone. All lands included in the administration's wilderness recommendation and lands proposed to be added to this recommendation make up this subzone. Natural systems and processes will be permitted to follow their courses with minimum intrusion by man. The number of visitors will be limited to levels which do not significantly affect natural environments.

Environmental Protection Subzone. Lands within this subzone have been dedicated to scientific research, and no management actions will be allowed that might interfere with this use.

Outstanding Natural Feature Subzone. This subzone contains natural features of outstanding significance which are not within proposed wilderness areas. Management will provide maximum protection from man's activities.

Natural Environment Subzone. Roads, picnicking areas, and trailheads are permitted in this subzone, but development will be minimal.



Management Zoning Plan

94,868

BOUNDARY ALTERATION, LAND ACQUISITION, AND WILDERNESS ADDITIONS

Boundary Alteration

The 253-acre Crocker Ridge addition will bring that section of Big Oak Flat Road presently within the Stanislaus National Forest inside the park boundary. The 1963 Memorandum of Understanding between the National Park Service and the Forest Service, which presently provides the Park Service with administration of 691 acres, will be changed to recognize the boundary change and to provide for necessary scenic controls for the national forest lands (438 acres) adjacent to the revised boundary. All land is federally owned, so this boundary change will require congressional authorization.

The 160-acre Raymond Mountain deletion will transfer land outside the park's legislative boundary which has been administered by the Forest Service under the 1963 Memorandum of Understanding. The land was acquired by the Park Service to provide water to Mariposa Grove, and the water transmission line crosses the area. It is proposed to transfer the land to Sierra National Forest with provision for continued use by the Park Service. This transfer will also require congressional authorization.

Land Acquisition

The National Park Service will continue to purchase lands within the boundaries of the park as they are offered for sale by willing sellers. No new development will be permitted at Foresta and Aspen Valley, but private owners may continue to use their lands in a manner compatible with park values without the National Park Service initiating acquisition action. Limited residential development of the Wawona community will be permitted. Owners of private land in Section 35 may construct housing on presently platted tracts under land use regulations that will be developed to ensure that park and community objectives are met.

Underlying fee title will be sought for all city of San Francisco lands except those directly associated with primary day-to-day water and power operations. This will allow detached backcountry parcels to be reclassified as wilderness. The city now holds substantial lands in the northern half of the park. The city's use of lands at Hetch Hetchy and Lake Eleanor for water supply and power will continue under terms of the Raker Act.

When land is purchased, applicable provisions of Public Law 91-646, the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, will be employed, and affected county governments will be compensated with payments in lieu of taxes in accordance with Public Law 94-565.

Additions to Wilderness

The National Park Service has recommended to Congress that certain lands (see following table) be reclassified as wilderness or potential wilderness, changing the management policies for these areas. Potential wilderness classification will prevent any further development of facilities or services; should existing developments be removed, there will be no reconstruction of facilities. Wilderness classification will require the eventual elimination of all improvements that do not conform with wilderness activities. Use of wilderness areas will be restricted to activities that are compatible with the definition of wilderness as cited in the Wilderness Recommendation for Yosemite National Park (National Park Service, 1972).

All additional lands proposed for potential and actual wilderness classification will be protected from further development. The Ostrander ski hut and the High Sierra camps will be reclassified as potential additions to wilderness. They will continue to be available for public use; if, however, they are eliminated, the areas proposed for potential wilderness additions will be managed as wilderness. Other areas that are proposed for reclassification as either wilderness or potential wilderness are the lands south of Tamarack Flat, Little Yosemite Valley, the lower Illilouette Valley, the Hetch Hetchy roadless area, the city of San Francisco parcels, and the enclaves on the north rim of Yosemite Valley; these areas are currently undeveloped.

Four road segments will be abandoned and restored to a natural condition after they are no longer needed: Six miles of the western portion of Old Tioga Road will be closed when private development in Aspen Valley has been removed. North Mountain Road and the road from Miguel Meadow to Lake Eleanor will be restored after 1985 when the Forest Service will no longer need to use the roads. The road to the baseline camp east of Mather will be removed when the need to maintain the Mather water supply ceases.

This proposal will not affect management or maintenance of Hetch Hetchy Reservoir or O'Shaughnessy Dam.

Proposed Additions to Wilderness Yosemite National Park (in acres)

		Potential
	Wilderness	Wilderness
1972 Wilderness Recommendation	646,700	121
Proposed Additions		
Lower Illilouette Valley	2,580	
South of Tamarack Flat	2,975	
7 miles of eastern Old Tioga Road corridor	6,400	
6 miles of western Old Tioga Road corridor		1,309
6 miles of Hetch Hetchy-Lake Eleanor Road o	orridor	810
Hetch Hetchy roadless area	7,380	
North Mountain Road corridor		
(near Hetch Hetchy roadless area)		465
3 enclaves on north rim of		
Yosemite Valley	90	
Road corridor size reduction	8,575	
Baseline camp area		375
City of San Francisco parcels		240
High Sierra camps and		
Ostrander ski hut		180
Little Yosemite Valley	1,900	
Subtotal	29,900	3,379
10001800000		47
Total	676,600	3,500

DEVELOPED AREA PLANS

These plans describe those actions that, using currently available information on environmental conditions, public use forecasts, and energy and economic factors, are considered necessary and desirable to achieve the goals for Yosemite. As the plan is implemented, new information and the results of detailed studies will be used to shape final designs for development actions. Reducing environmental impact and man-made intrusion on the natural and cultural values of the park will be the guide for determining the exact scope of these actions.

YOSEMITE VALLEY DISTRICT

Yosemite Valley

Yosemite Valley is the heart of Yosemite National Park — its most inspiring and popular attraction. The Merced River, the meadows and forests that form its bottomlands, and the spectacular cliffs and waterfalls create one of the grandest natural settings that exist anywhere in the world.

Within this setting, which is both serene and exhilarating, the experience is different for everyone. Picnicking along the Merced River or reading in a flowered meadow is relaxing and calm; a Valley scenic tour or historic walk is inspirational and educational; and a three-day climb on El Capitan is exciting and challenging.

The one thing these experiences have in common is that they make people feel a part of the place. This feeling would be enhanced by freeing people from the perceptions of commercialization and urbanization. They must be able to relax, learn, and meet nature's challenges without the distractions that destroy the spectacular and friendly nature of the srea.

While the National Park Service intends to remove all automobile traffic from the Valley, the immediate plan is to greatly reduce traffic there, by restricting automobile use to established capacities and encouraging visitors to leave their automobiles at parking areas with bus service to the Valley. Visitors who drive their automobiles to overnight accommodations or day parking areas in the Valley will use the Valley shuttle buses for transportation during their stay. Those employees who must commute to work will be encouraged to use carpools or buses, rather than private automobiles.

Other proposals for the Valley are designed to reduce impacts on the most significant natural resources and to return the Valley to as near its natural

Provide adequate domestic water supply

- Connect all facilities at entrance station to the existing wastewater treatment plant; expand plant and provide for year-round use
- Retain utility building
- Convert existing surface water system to an underground source
- Retain existing residences

Hetch Hetchy and Lake Eleanor

Hetch Hetchy Reservoir and Lake Eleanor are located in the northwest corner of the park away from the main traffic route, and they receive little use in comparison with Yosemite Valley. Both reservoirs are part of the San Francisco water and power-production system.

Hetch Hetchy Reservoir at O'Shaughnessy Dam is a popular destination for visitors, who spend a short time viewing the dam and the Yosemite Valley-like walls and falls above the reservoir and taking brief walks along the shore. Backcountry hikers frequently use this area as an entry or exit point. The Hetch Hetchy shore has little suitable land for development because it is steep. Since the lake is a domestic water supply, the city of San Francisco restricts its use for water recreation and also restricts use of adjoining lands.

The gently sloping land along Lake Eleanor's northwest and southeast shore is particularly suitable for backcountry use. It is approximately 4 miles from the road terminus and provides easy access to the backcountry for families and novice hikers. The lake only provides water for power production, so restrictions on public use are much less stringent than those at Hetch Hetchy. Visitors to Lake Eleanor also use Cherry Lake, which is located on nearby U.S. Forest Service land.

Hetch Hetchy

Goals

Visitor Use

Continue use as a destination for visitors who wish to view the dam, the reservoir, and the valley

Continue to provide backcountry access from Hetch Hetchy

Actions

Visitor Use

- Retain parking for dam and trailhead
- Retain picnic area
- Provide connecting trail from stock unloading area